

**AMENDMENTS TO THE SPECIFICATION**

Please replace the "Title of the Invention" beginning at page 1, line 1, with the following amended paragraph:

-- DEVICE FOR ANALYSIS OF A SIGNAL, IN PARTICULAR A PHYSIOLOGICAL SIGNAL SUCH AS AN ECG SIGNAL --

Please replace the "Abstract" beginning at page 16, line 2, in its entirety with the following amended paragraph:

-- A device for analyzing a physiological signal, such as an electrocardiogram or electrogram, that was previously collected, filtered, sampled and digitized. The device memorizes the digitized signal and analyzes it by decomposing the signal into a plurality of N parameterized bump functions, where each bump function is a continuous function defined by three successive intervals, respectively, a first monotonic parameterized function, an affine function, and a second monotonic parameterized function, with one of the monotonic parameterized functions being increasing and the other decreasing. The parameterized functions are preferably half-Gaussian functions, and the affine function preferably has a null slope. Each N bump function is classified by recognizing at least one parameter characteristic of each wave, and allotting a standardized label, selected among a plurality of predetermined labels, according to one or to more of the characteristic parameters thus recognized. --